

## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of detecting transitions in video comprising:
  - acquiring a video stream;
  - dividing said the video stream into a plurality of sub-sections;
  - determining a probability of whether a one or more synthesized transition effect is effects are present at one of the plurality of sub-sections of said the video stream, wherein the one or more transition effects are of a specified number and a specified type; and
  - embedding said the probability into said the sub-section of said the video stream.
2. (Currently Amended) The method of Claim 1-claim 1, wherein said the determining said probability is performed by a classifier.
3. (Currently Amended) The method of Claim 2-claim 2, wherein said the classifier is provided a fixed-sized portion of said sub-section.
4. (Currently Amended) The method of Claim 1-claim 1, further comprising outputting a location of said the one or more transition effect effects and a duration of said the one or more transition effect effects in said the video stream.
5. (Cancelled)
6. (Currently Amended) The method of Claim 1-claim 1, wherein said the transition is comprises one or more of the following: a dissolve, a fade, a wipe, a iris, a funnel, a mosaic, a roll, a door, a push, a peel, a rotate, or and a special effect.

7-10. (Cancelled)

11. (Currently Amended) A method of processing video comprising:  
acquiring a first shot and a second shot from a plurality of video streams, ~~said-the~~ shots  
comprising a transition free video stream;  
determining a duration of a transition sequence based on probability distribution, the transition  
sequence including one or more synthesized transition effects of a specified number and a  
specified type;  
generating the transition sequence of the duration, the transition sequence having the one or more  
transition effects;  
generating a video sequence comprising the transition sequence from ~~said-the~~ first shot to ~~said~~  
~~the~~ second shot for ~~said-the~~ determined duration, wherein the transition sequence is  
inserted into the video sequence; and  
training a classifier to detect a transition effect within ~~said-the~~ generated video sequence.

12. (Currently Amended) The method of ~~Claim 11-claim 11~~, wherein ~~said-the~~ probability  
distribution represents a fixed duration.

13. (Currently Amended) The method of ~~Claim 11-claim 11~~, wherein ~~said-the~~ transition sequence is  
comprises one or more of the following: a dissolve, a fade, a wipe, a iris, a funnel, a mosaic, a  
roll, a door, a push, a peel, a rotate, or-and a special effect.

14-18. (Cancelled)

19-23. (Cancelled)

24-25. (Cancelled)

26. (Currently Amended) A machine-readable medium ~~that provides having sets of instructions, which, when executed by a set of one or more processors machine, cause said set of processors to perform operations comprising causes the machine to:~~ acquiring acquire one or more video streams and a probability distribution, ~~said the~~ video stream including a shot description; determining determine a duration of a transition sequence according to ~~said the~~ probability distribution, ~~said transition sequence including one or more synthesized transition effects of a specified number and a specified type;~~ selecting select, at random, a first shot and a second shot from the one or more video streams, each shot being transition free; generating generate ~~said the~~ transition sequence of ~~said the~~ duration, ~~said the~~ transition sequence including ~~a one or more transition effect effects~~; and training a classifier to detect ~~said the one or more transition effect effects~~ within ~~said the~~ generated transition sequence.

27. (Currently Amended) The machine-readable medium of claim 26 wherein ~~said the one or more transition effect includes effects include~~ a portion of ~~said the~~ first shot and a portion of ~~said the~~ second shot.

28. (Currently Amended) The machine-readable medium of claim 26 wherein ~~said the~~ video transition sequence includes a portion of ~~said the~~ first shot before ~~said the~~ transition effect, ~~said~~said the one or more transition effect effects, and a portion of ~~said the~~ second shot after ~~said~~the one or more transition effect effects.

29. (Currently Amended) The machine-readable medium of claim 26 wherein ~~said the one or more transition effect is effects comprise~~ one or more of the following: a dissolve, a fade, a wipe, a iris, a funnel, a mosaic, a roll, a door, a push, a peel, a rotate, ~~or and~~ a special effect.

30. (Currently Amended) The machine-readable medium of claim 26, further comprising:  
training a classifier to detect said the one or more transition effect effects within said the generated transition sequence.

31. (Currently Amended) The method of claim 11, further comprising:  
training a classifier to detect a the one or more transition effect effects within said the generated video sequence.

32. (Currently Amended) A system comprising:  
a transition synthesizer module to generate a video sequence the video sequence comprising a transition sequence having one or more synthesized transition effects of a specified number and a specified type, wherein prior to generating the video sequence, a duration of the transition sequence is determined based on a probability distribution; and  
a classifier module, the classifier module to be trained to identify a transition effect based on the generated video sequence.

33. (Original) The system of claim 32, wherein the transition synthesizer module to generate the video sequence using random video shots from a plurality of video streams, the video shots being transition free.

34. (Currently Amended) The system of claim 32, wherein each synthesized transition effect is associated with a the duration based on a the probability distribution.

35. (Original) The system of claim 32, wherein the training of the classifier module comprises rescaling a time series of frame-based feature values associated with the generated video sequence.